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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/413,694	10/07/1999	TAE-SAN PARK	8836-115(1B8)	2313
7590	12/24/2003			EXAMINER TIEU, BINH KIEN
FRANK CHAU F CHAU & ASSOCIATES LLP 1900 HEMPSTEAD TURNPIKE SUITE 501 EAST MEADOW, NY 11554			ART UNIT 2643	PAPER NUMBER 8
DATE MAILED: 12/24/2003				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/413,694	PARK, TAE-SAN
	Examiner BINH K. TIEU	Art Unit 2643

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 17 November 2003.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-13 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 6,12 and 13 is/are allowed.

6) Claim(s) 1-5 and 7-11 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

 a) All b) Some * c) None of:

 1. Certified copies of the priority documents have been received.

 2. Certified copies of the priority documents have been received in Application No. _____.

 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

 * See the attached detailed Office action for a list of the certified copies not received.

13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

 a) The translation of the foreign language provisional application has been received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.

4) Interview Summary (PTO-413) Paper No(s) _____.

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, filed 11/17/2003, with respect to the rejection(s) of claim(s) 1-5 and 7-11 under previous cited prior art have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made as follows.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-5 and 7-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Park et al. (U.S. Pat. #: 6,181,794).

Regarding claim 1, Park et al. ("Park") teaches an echo canceller, as shown in figure 2, comprising:

at least one adaptive filter (i.e., adaptive filter 21) for extracting at least one echo signal from speech signals (col.3, lines 25-27) and for calculating at least one power value of the speech signals (col.7, lines 64-66); and

at least one subtraction means for generating at least one error signal by subtracting the at least one echo signal from the speech signals (col.5, lines 10-18).

at least one update control means for selectively updating at least one filter coefficient of the at least one adaptive filter in response to the at least one power value and the at least one error signal (col.7, line 66 – col.8, line 4; lines 14-16, and lines 55-59).

Regarding claims 2-5, note col.7, line 57, lines 41-65.

Regarding claim 7, Park teaches an apparatus such as an echo canceller for removing echo components from speech signals in a vocoder as shown in figure 2, the apparatus comprising:

at least one adaptive filter (i.e., adaptive filter 21) for extracting at least one echo signal from speech signals (col.3, lines 25-27) and for calculating at least one power value of the speech signals (col.7, lines 64-66);

a selection means for generating at least one selective signal in response to the at least one power value of the speech signal (col.8, lines 39-52);

at least one subtraction means for generating at least one error signal by subtracting the at least one echo signal from the speech signals (col.10, lines 27-35).

at least one update control means for updating at least one filter coefficient of the at least one adaptive filter when the at least one selective signal provided from the selective means is activated (col.7, line 66 – col.8, line 4; lines 14-16, and lines 55-59).

Regarding claims 8-11, note col.7, line 57, lines 41-65.

Allowable Subject Matter

4. Claims 6 and 12-13 allowed.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ikeda (U.S. Pat. #: 5,940,455) also teaches the feature of "... at least one update control means for selectively updating at least one filter coefficient of the at least one adaptive filter *in response to the at least one power value and the at least one error signal.*"

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh K. Tieu whose telephone number is (703) 305-3963 and E-mail address: BINH.TIEU@USPTO.GOV.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Curtis Kuntz, can be reached on (703) 305-4708 and **IF PAPER HAS BEEN MISSED FROM THIS OFFICIAL ACTION PACKAGE, PLEASE CALL Customer Service at (703) 306-0377 FOR THE SUBSTITUTIONS OR COPIES.**

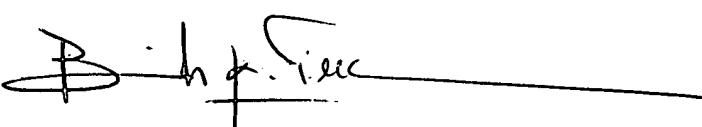
Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Or faxed to:

(703) 872-9314

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington VA, Sixth Floor (Receptionist, tel. No. 703-305-4700).


BINH TIEU
PRIMARY EXAMINER

Art Unit 2643

Date: December 18, 2003